Index to Volume 184

A

Abe, Mayumi. See Nakano, Toru 255
Acquarone, Francesca. See Ferracini, Riccardo 191
Actin depolymerization and polymerization are required during apoptosis in endothelial cells 239
Activator protein 1 complex, Platelet-derived growth factor induces collagenase 3 transcription in osteoblasts through the 326
Agell, Neus. See Busquets, Sílvia 380
Albini, Adriana. See Montaldo, Fabrizio 246
Albright, James A. See Kolomytkin, Oleg V. 110
Alonso, Alicia. See Kolesnick, Richard N. 285
Alvarez, Belén. See Busquets, Sílvia 380
Angiogenesis inhibition by transdominant mutant Ets-1 255
Angiopoietin 2 expression in the retina: upregulation during physiologic and pathologic neovascularization 275
Apoptosis in endothelial cells, Actin depolymerization and polymerization are required during 239
Argilés, Josep M. See Busquets, Sílvia 380
Arora, P. See Zohar, R. 118
Asano, Masahiro. See Nishida, Takashi 197
Autoregulation of the bone related CBFA1/RUNX2 gene, Transcriptional 341

B

BA/F3β cells: Bax, reactive oxygen species, and NFκB are involved, Copper induces apoptosis in 161
Baldini, Nicola. See Ferracini, Riccardo 191
Bass, John. See Kirk, Sonnie 356
Bax, reactive oxygen species, and NFκB are involved, Copper induces apoptosis in BA/F3β cells: 161
bHLH protein twist and the cdk inhibitor p27, Hepatocyte growth factor (HGF) inhibits skeletal muscle cell differentiation: a role for the 101
Bogan, Joseph A., Darren A. Natale, and Melvin L. Depamphilis. Initiation of eukaryotic DNA replication: conservative or liberal? 139
Bone morphogenetic protein-7 (osteogenic protein-1) inhibits smooth muscle cell proliferation and stimulates the expression of markers that are characteristic of SMC phenotype in vitro 37
Bone related CBFA1/RUNX2 gene, Transcriptional autoregulation of the 341
Branched-chain amino acids inhibit proteolysis in rat skeletal muscle: mechanisms involved 380
Burgess, Wilson H. See Grieb, Teri A. 171
Busquets, Sílvia, Belén Alvarez, Marta Llovera, Neus Agell, Francisco J. López-Soriano, and Josep M. Argilés. Branched-chain amino acids inhibit proteolysis in rat skeletal muscle: mechanisms involved 380

C

Cagliero, Elga. See Ferracini, Riccardo 191
Calcium signaling induced by adhesion mediates protein tyrosine phosphorylation and is independent of pHi 400
Campochiaro, Peter A. Retinal and choroidal neovascularization 301
Campochiaro, Peter A. See Hackett, Sean F. 275
Canalis, Ernesto. See Rydziel, Sheila 326
Cancer, Histone deacetylases, transcriptional control, and 1
Carvajal, Jorge A., Alfredo M. Germain, Juan Pablo Huidobro-Toro, and Carl P. Weiner. Molecular mechanism of cGMP-mediated smooth muscle relaxation 409
CD34 + hematopoietic progenitor cells, Human mesenchymal stem cells support megakaryocyte and pro-platelet formation from 58
CD44-ERM complex involved in cell migration, Intracellular osteopontin is an integral component of the 118
cdk inhibitor p27, Hepatocyte growth factor (HGF) inhibits skeletal muscle cell differentiation: a role for the bHLH protein twist and the 101
Ceramide signaling: physical foundations and biological effects, Compartmentalization of 285
cGMP-mediated smooth muscle relaxation, Molecular mechanism of 409
Chambers, T.J. See Fox, S.W. 334
Charbord, Pierre. See Deschaseaux, Frédéric 319
Chen, Kuang Yu. See Lu, Jiebo 183
Chen, Weizhi. See Gao, Youhe 373
Cheng, Linzhao, Pankaj Qasba, Padmavathy Vanguri, and Mark A. Thiede. Human mesenchymal stem cells support megakaryocyte and pro-platelet formation from CD34 + hematopoietic progenitor cells 58
Chiao, Judy H. See Kühnel, Jean-Marc 364
Choi, Je-Yong. See Drissi, Hicham 341
Christoffersen, Thoralf. See Melien, Øyvind 27
Coetzee, Sandra. See Salm, Sarah N. 70
Collagen lattices, Cell coupling modulates the contraction of fibroblast-populated 86
Collagen-α2β1 integrin interaction, Type I collagen-induced osteoblastic differentiation of bone-marrow cells mediated by .. 207
Collagenase 3 transcription in osteoblasts through the activator protein 1 complex, Platelet-derived growth factor induces ... 326
Copper induces apoptosis in BA/F3β cells: bax, reactive oxygen species, and NFκB are involved 161
Cornell-Bell, A. See Trinkaus-Randall, V. 400
Cress, W. Douglas and Edward Seto. Histone deacetylases, transcriptional control, and cancer 1
CTGF/Hcs24, a hypertrophic chondrocyte-specific gene product, on the proliferation and differentiation of osteoblastic cells in vitro, Effects of 197
Cyclosporine has a direct effect on the differentiation of a mucin-secreting cell line 385
Cytokines on the proliferation/differentiation of stroma-initiating cells, Effect of 351

D

Depamphilis, Melvin L. See Bogan, Joseph A. 139
Deschaseaux, Frédéric and Pierre Charbord. Human Marrow Stromal Precursors Are α1 Integrin Subunit-Positive 319
de Sousa Lopes, Susana Chuva. See Drissi, Hicham 341
Dobbie, Pete. See Kirk, Sonnie 356
Dorai, Haimanti, Slobodan Vukicevic, and T. Kuber Sampath. Bone morphogenetic protein-7 (osteogenic protein-1) inhibits smooth muscle cell proliferation and stimulates the expression of markers that are characteristic of SMC phenotype in vitro 37
Drissi, Hicham, Quyen Luc, Rauf Shakoori, Susana Chuva de Sousa Lopes, Stephen Jones, Je-Yong Choi, Anne Terry, Ming Hu, James C. Neil, Jane B. Lian, Janet L. Stein, André J. Van Wijnen, Gary S. Stein. Transcriptional autoregulation of the bone related CBFA1/RUNX2 gene 341
Ducos, Karin, Beatrice Panterne, Nicolas Fortunel, Antoinette Hatzfeld, Marie-Noelle Monier, and Jacques Hatzfeld. $p21^{cip1}$ mRNA is controlled by endogenous transforming growth factor-β1 in quiescent human hematopoietic stem/progenitor cells 80
Dumont, Jacques E. See Suarez-Huerta, Nathalie 239
Dunn, Kenneth W. See Wang, Exing 263
Durant, Deena. See Rydziel, Sheila 326

E

Edelman, Elazer R. See Ettenson, David S. 93
EGF-induced cell-cycle arrest, Interruption of NFκB-Stat1 signaling mediates 131
Ehrlich, H. Paul, Giulio Gabbiani, and Paolo Meda. Cell coupling modulates the contraction of fibroblast-populated collagen lattices 86

Endogenous transforming growth factor-β1 in quiescent human hematopoietic stem/progenitor cells, $p21^{cip1}$ mRNA is controlled by ... 80
Endothelial heparan sulfate is necessary but not sufficient for control of vascular smooth muscle cell growth ... 93
Ets-1, Angiogenesis inhibition by transdominant mutant ... 255
Ettenson, David S., Edward W.Y. Koo, James L. Januzzi, and Elazer R. Edelman. Endothelial heparan sulfate is necessary but not sufficient for control of vascular smooth muscle cell growth ... 93
Eukaryotic DNA replication: conservative or liberal?, Initiation of ... 139

F

Ferracini, Riccardo, Katia Scotlandi, Elga Cagliero, Francesca Acquarone, Martina Olivero, Jay Wunder, and Nicola Baldini. The expression of met/hepatocyte growth factor receptor gene in giant cell tumors of bone and other benign musculoskeletal tumors ... 191
Fibroblast growth factor-1 correlates with its internalization and limited proteolytic processing, The mitogenic activity of ... 171
Fibroblast-populated collagen lattices, Cell coupling modulates the contraction of ... 86
Fisher rat 3t3 cells, Contrasting effects of oncogene expression on two carrier-mediated systems internalizing folate compounds in ... 364
Fission yeast, Transcriptional silencing in ... 311
Folate compounds in fisher rat 3t3 cells, Contrasting effects of oncogene expression on two carrier-mediated systems internalizing ... 364
Fortunel, Nicolas. See Ducos, Karin ... 80
Fox, S.W., K. Fuller, and T.J. Chambers. Activation of osteoclasts by interleukin-1: divergent responsiveness in osteoclasts formed in vivo and in vitro ... 334
Fujisawa, Ryuichi. See Mizuno, Morimichi ... 207
Fujita, Toshiro. See Sekine, Nobuo ... 46
Fuller, K. See Fox, S.W. ... 334

G

Gabbiani, Giulio. See Ehrlich, H. Paul ... 86
Gal-Levi, Ronit. See Leshem, Yael ... 101
Gamou, Shinobu. See Ohtsubo, Masafumi ... 131
Gao, Youhe, Min Li, Weizhi Chen, and Michael Simons. Synectin, syndecan-4 cytoplasmic domain binding PDZ protein, inhibits cell migration ... 373
Gap junctions in human synovial cells and tissue ... 110
Germain, Alfredo M. See Carvajal, Jorge A. ... 409
G_i proteins at a level distal to receptor coupling, Effects of pertussis toxin on extracellular signal-regulated kinase activation in hepatocytes by hormones and receptor-independent agents: evidence suggesting a stimulatory role of ... 27
Giordano, Antonio. See Ritchie, Candace K. ... 214
Giordano, Silvia. See Montaldo, Fabrizio ... 246
Glioblastoma multiforme: possible regulation by NF-κB, Integrin involvement in ... 214
Glogauer, M. See Zohar, R. ... 118
Goñi, Felix M. See Kolesnick, Richard N. ... 285
Grewal, Shiv I.S. Transcriptional silencing in fission yeast ... 311
Grieb, Teri A. and Wilson H. Burgess. The mitogenic activity of fibroblast growth factor-1 correlates with its internalization and limited proteolytic processing ... 171

H

Hackett, Sean F., Hiroaki Ozaki, Rupert W. Strauss, Karl Wahlin, Chitra Suri, Peter Maisonpierre, George Yancopoulos, and Peter A. Campochiaro. Angiopoietin 2 expression in the retina: upregulation during physiologic and pathologic neovascularization ... 275
Halevy, Orna. See Leshem, Yael ... 101
Hall, Vicky. See Kolomytkin, Oleg V. ... 110
Hatake, Kiyohiko. See Yamada, Muneo ... 351
Hatzfeld, Antoinette. See Ducos, Karin ... 80
Hatzfeld, Jacques. See Ducos, Karin ... 80
Hayasawa, Hirotoshi. See Yamada, Muneo ... 351
Hayashi, Michio. See Sekine, Nobuo ... 46
Heat shock factor 1 by hyperosmotic or hypo-osmotic stress is drastically attenuated in normal human fibroblasts during senescence, Activation of ... 183
Helber, Jennifer. See Imagawa, Walter ... 222
Hematopoietic stem/progenitor cells, $p21^{cip1}$ mRNA is controlled by endogenous transforming growth factor-β1 in quiescent human ... 80
Hepatocyte growth factor (HGF) inhibits skeletal muscle cell differentiation: a role for the bHLH protein twist and the cdk inhibitor p27 ... 101
Histone deacetylases, transcriptional control, and cancer ... 1
Hoekstra, Dick. See Van IJzendoorn, Sven C.D. ... 151
Hu, Ming. See Drissi, Hicham ... 341
Huidobro-Toro, Juan Pablo. See Carvajal, Jorge A. ... 409
Human marrow stromal precursors are α1 integrin subunit-positive ... 319
Hyperosmotic or hypo-osmotic stress is drastically attenuated in normal human fibroblasts during senescence, Activation of heat shock factor 1 by ... 183
Hypo-osmotic stress is drastically attenuated in normal human fibroblasts during senescence, Activation of heat shock factor 1 by hyperosmotic or ... 183

I

Imagawa, Walter, Vadim K. Pedchenko, Jennifer Helber, and Chao Xing. Attenuation and loss of hormonal modulation of KGF (FGF-7)/KGF receptor expression and mitogenesis during mammary tumor progression ... 222
INS-1 cells, Synergistic activation of NF-κB and inducible isoform of nitric oxide synthase induction by interferon-γ and tumor necrosis factor-α in ... 46
Integrin involvement in glioblastoma multiforme: possible regulation by NF-κB ... 214
Interferon-γ and tumor necrosis gactor-α in INS-1 cells, synergistic activation of NF-κB and inducible isoform of nitric oxide synthase induction by ... 46
Interleukin-1: divergent responsiveness in osteoclasts formed in vivo and in vitro, activation of osteoclasts by ... 334
Ishikawa, Toshio. See Sekine, Nobuo ... 46

J

Januzzi, James L. See Ettenson, David S. ... 93
Ji, Hongbin. See Zhai, Qiwei ... 161
Johansen, Ellen Johanne. See Melien, Øyvind ... 27
Jones, Stephen. See Drissi, Hicham ... 341

K

Kambadur, Ravi. See Kirk, Sonnie ... 356
Kaposi's sarcoma cells, Expression of functional tyrosine kinases on immortalized ... 246
Kewalramani, R. See Trinkaus-Randall, V. ... 400
KGF (FGF-7)/KGF receptor expression and mitogenesis during mammary tumor progression, Attenuation and loss of hormonal modulation of ... 222
Khalili, Kamel. See Ritchie, Candace K. ... 214
Kinase activation in hepatocytes by hormones and receptor-independent agents: evidence suggesting a stimulatory role of G_i proteins at a level distal to receptor coupling, Effects of pertussis toxin on extracellular signal-regulated ... 27

Kirk, Sonnie, Jenny Oldham, Ravi Kambadur, Mridula Sharma, Pete Dobbie, and John Bass. Myostatin regulation during skeletal muscle regeneration ... 356
Koikawa, Yasuhiro. See Salm, Sarah N. ... 70
Kolesnick, Richard N., Felix M. Goñi, and Alicia Alonso. Compartmentalization of ceramide signaling: physical foundations and biological effects ... 285
Kolomytkin, Oleg V., Andrew A. Marino, Kalia K. Sadasivan, William D. Meek, Robert E. Wolf, Vicky Hall, Kevin J. McCarthy, and James A. Albright. Gap junctions in human synovial cells and tissue ... 110
Koo, Edward W.Y. See Ettenson, David S. ... 93
Korutla, Laxminarayana. See Strayer, David S. ... 229
Kuboki, Yoshinori. See Mizuno, Morimichi ... 207
Kühnel, Jean-Marc, Judy H. Chiao, and F.M. Sirotnak. Contrasting effects of oncogene expression on two carrier-mediated systems internalizing folate compounds in fisher rat 3t3 cells ... 364

L

Lee, Michele D. See Wang, Exing ... 263
Lepor, Herbert. See Salm, Sarah N. ... 70
Leshem, Yael, Douglas B. Spicer, Ronit Gal-Levi, and Orna Halevy. Hepatocyte growth factor (HGF) inhibits skeletal muscle cell differentiation: a role for the bHLH protein twist and the cdk inhibitor p27 ... 101
Li, Min. See Gao, Youhe ... 373
Lian, Jane B. See Drissi, Hicham ... 341
Ling, Victor. See Zhang, Wandong ... 17
Liu, Alice Yee-Chang. See Lu, Jiebo ... 183
Liu, Xinyuan. See Zhai, Qiwei ... 161
Llovera, Marta. See Busquets, Sílvia ... 380
López-Soriano, Francisco J. See Busquets, Sílvia ... 380
Lu, Jiebo, Jeong Hyeon Park, Alice Yee-Chang Liu, and Kuang Yu Chen. Activation of heat shock factor 1 by hyperosmotic or hypo-osmotic stress is drastically attenuated in normal human fibroblasts during senescence ... 183
Luc, Quyen. See Drissi, Hicham ... 341

M

Maffé, Antonella. See Montaldo, Fabrizio ... 246
Maier, Olaf. See Van IJzendoorn, Sven C.D. ... 151
Maisonpierre, Peter. See Hackett, Sean F. ... 275
Marino, Andrew A. See Kolomytkin, Oleg V. ... 110
McCarthy, Kevin J. See Kolomytkin, Oleg V. ... 110
McCulloch, C.A.G. See Zohar, R. ... 118
McHugh, Jon. See Phillips, Thomas E. ... 385
Meda, Paolo. See Ehrlich, H. Paul ... 86
Meek, William D. See Kolomytkin, Oleg V. ... 110
Melien, Øyvind, Dagny Sandnes, Ellen Johanne Johansen, and Thoralf Christoffersen. Effects of pertussis toxin on extracellular signal-regulated kinase activation in hepatocytes by hormones and receptor-independent agents: evidence suggesting a stimulatory role of G_i proteins at a level distal to receptor coupling ... 27
Mesenchymal stem cells support megakaryocyte and pro-platelet formation from CD34$^+$ hematopoietic progenitor cells, Human ... 58
MES-SA but not multidrug-resistant MES-SA/Dx5 uterine sarcoma cells, Lysosomal accumulation of drugs in drug-sensitive 263
MES-SA/Dx5 tterine sarcoma cells, Lysosomal accumulation of drugs in drug-sensitive MES-SA but not multidrug-resistant 263
Met/hepatocyte growth factor receptor gene in giant cell tumors of bone and other benign musculoskeletal tumors, The expression of ... 191
Mitogenesis during mammary tumor progression, Attenuation and loss of hormonal modulation of KGF (FGF-7)/KGF receptor expression and ... 222
Mitogenic activity of fibroblast growth factor-1 correlates with its internalization and limited proteolytic processing, The ... 171
Mizuno, Morimichi, Ryuichi Fujisawa, and Yoshinori Kuboki. Type I collagen-induced osteoblastic differentiation of bone-marrow cells mediated by collagen-α2β1 integrin interaction 207
Monier, Marie-Noelle. See Ducos, Karin ... 80
Montaldo, Fabrizio, Antonella Maffé, Monica Morini, Douglas Noonan, Silvia Giordano, Adriana Albini, and Maria Prat. Expression of functional tyrosine kinases on immortalized Kaposi's sarcoma cells ... 246
Moore, Cecil P. See Phillips, Thomas E. ... 385
Moore, Emma. See Salm, Sarah N. ... 70
Morini, Monica. See Montaldo, Fabrizio ... 246
Moscatelli, David. See Salm, Sarah N. ... 70
Mosselmans, Roger. See Suarez-Huerta, Nathalie ... 239
Motoyoshi, Kazuo. See Yamada, Muneo ... 351
Mucin-secreting cell line. Cyclosporine has a direct effect on the differentiation of a ... 385
Multidrug-resistant cells, Cell-cycle-dependent turnover of P-glycoprotein in ... 17
Multiforme: possible regulation by NF-κB, Integrin involvement in glioblastoma ... 214
Myostatin regulation during skeletal muscle regeneration ... 356

N

Nakanishi, Tohru. See Nishida, Takashi ... 197
Nakano, Toru, Mayumi Abe, Katsuhiro Tanaka, Ryuzaburo Shineha, Susumu Satomi, and Yasufumi Sato. Angiogenesis inhibition by transdominant mutant Ets-1 ... 255
Natale, Darren A. See Bogan, Joseph A. ... 139
Neil, James C. See Drissi, Hicham ... 341
Neovascularization, Angiopoietin 2 expression in the retina: up-regulation during physiologic and pathologic ... 275
Neovascularization, Retinal and choroidal ... 301
NF-κB and inducible isoform of nitric oxide synthase induction by interferon-γ and tumor necrosis factor-α in INS-1 cells, Synergistic activation of ... 46
NFκB are involved, Copper induces apoptosis in BA/F3β cells: Bax, reactive oxygen species, and ... 161
NF-κB, Integrin involvement in glioblastoma multiforme: possible regulation by ... 214
NFκB-Stat1 signaling mediates EGF-induced cell-cycle arrest, Interruption of ... 131
Nishida, Takashi, Tohru Nakanishi, Masahiro Asano, Tsuyoshi Shimo, and Masaharu Takigawa. Effects of CTGF/Hcs24, a hypertrophic chondrocyte-specific gene product, on the proliferation and differentiation of osteoblastic cells in vitro ... 197
Noonan, Douglas. See Montaldo, Fabrizio ... 246

O

Ogilvie, Varrie. See Salm, Sarah N. ... 70
Ohtsubo, Masafumi, Atsushi Takayanagi, Shinobu Gamou, and Nobuyoshi Shimizu. Interruption of NFκB-Stat1 signaling mediates EGF-induced cell-cycle arrest ... 131
Okazaki, Tomoki. See Sekine, Nobuo ... 46
Oldham, Jenny. See Kirk, Sonnie ... 356
Olivero, Martina. See Ferracini, Riccardo ... 191
Oncogene expression on two carrier-mediated systems internalizing folate compounds in fisher rat 3t3 cells, Contrasting effects of ... 364
Osteoblastic cells in vitro, Effects of CTGF/Hcs24, a hypertrophic chondrocyte-specific gene product, on the proliferation and differentiation of ... 197
Osteoblastic differentiation of bone-marrow cells mediated by collagen-α2β1 integrin interaction, Type I collagen-induced . 207
Osteoclasts by interleukin-1: divergent responsiveness in osteoclasts formed in vivo and in vitro, Activation of ... 334
Osteopontin is an integral component of the CD44-ERM complex involved in cell migration, Intracellular ... 118
Ozaki, Hiroaki. See Hackett, Sean F. ... 275

P

p21^{cip1} mRNA is controlled by endogenous transforming growth factor-β1 in quiescent human hematopoietic stem/progenitor cells ... 80
Panterne, Beatrice. See Ducos, Karin ... 80
Park, Jeong Hyeon. See Lu, Jiebo ... 183
Payne, J. See Trinkaus-Randall, V. ... 400
Pedchenko, Vadim K. See Imagawa, Walter ... 222
Pertussis toxin on extracellular signal-regulated kinase activation in hepatocytes by hormones and receptor-independent agents: evidence suggesting a stimulatory role of G_i proteins at a level distal to receptor coupling, Effects of ... 27
P-glycoprotein in multidrug-resistant cells, Cell-cycle-dependent turnover of ... 17
pHi, Calcium signaling induced by adhesion mediates protein tyrosine phosphorylation and is independent of ... 400
Phillips, Thomas E., Jon McHugh, and Cecil P. Moore. Cyclosporine has a direct effect on the differentiation of a mucin-secreting cell line ... 385
PI3 kinase pathway, Activation of surfactant protein-B transcription: signaling through the SP-A receptor utilizing the ... 229
Platelet-derived growth factor induces collagenase 3 transcription in osteoblasts through the activator protein 1 complex ... 326
Prat, Maria. See Montaldo, Fabrizio ... 246
Protein tyrosine phosphorylation and is independent of pHi, Calcium signaling induced by adhesion mediates ... 400
Proteolysis in rat skeletal muscle: mechanisms involved, Branched-chain amino acids inhibit ... 380

Q

Qasba, Pankaj. See Cheng, Linzhao ... 58

R

Reactive oxygen species, and NFκB are involved, Copper induces apoptosis in BA/F3β cells: Bax, ... 161
Retina: upregulation during physiologic and pathologic neovascularization, Angiopoietin 2 expression in the ... 275
Ritchie, Candace K., Antonio Giordano, and Kamel Khalili. Integrin involvement in glioblastoma multiforme: possible regulation by NF-κB ... 214
Robaye, Bernard. See Suarez-Huerta, Nathalie ... 239
Rydziel, Sheila, Deena Durant, and Ernesto Canalis. Platelet-derived growth factor induces collagenase 3 transcription in osteoblasts through the activator protein 1 complex ... 326

S

Sadasivan, Kalia K. See Kolomytkin, Oleg V. ... 110
Salm, Sarah N., Yasuhiro Koikawa, Varrie Ogilvie, Akira Tsujimura, Sandra Coetzee, David Moscatelli, Emma Moore, Herbert Lepor, Ellen Shapiro, Tung-Tien Sun, and E. Lynette Wilson. Generation of active TGF-β by prostatic cell cocultures using novel basal and luminal prostatic epithelial cell lines 70
Sampath, T. Kuber. See Dorai, Haimanti ... 37
Sandnes, Dagny. See Melien, Øyvind ... 27
Sarcoma cells, Lysosomal accumulation of drugs in drug-sensitive MES-SA but not multidrug-resistant MES-SA/Dx5 uterine ... 263
Sato, Yasufumi. See Nakano, Toru ... 255
Satomi, Susumu. See Nakano, Toru ... 255
Scotlandi, Katia. See Ferracini, Riccardo ... 191
Sekine, Nobuo, Toshio Ishikawa, Tomoki Okazaki, Michio Hayashi, Claes B. Wollheim, and Toshiro Fujita. Synergistic activation of NF-κB and inducible isoform of nitric oxide synthase induction by interferon-γ and tumor necrosis factor-α in INS-1 cells ... 46
Seto, Edward. See Cress, W. Douglas ... 1
Shakoori, Rauf. See Drissi, Hicham ... 341
Shapiro, Ellen. See Salm, Sarah N. ... 70
Sharma, Mridula. See Kirk, Sonnie ... 356
Shimizu, Nobuyoshi. See Ohtsubo, Masafumi ... 131
Shimo, Tsuyoshi. See Nishida, Takashi ... 197
Shineha, Ryuzaburo. See Nakano, Toru ... 255
Simons, Michael. See Gao, Youhe ... 373
Sirotnak, F.M. See Kühnel, Jean-Marc ... 364
SMC phenotype in vitro, Bone morphogenetic protein-7 (osteogenic protein-1) inhibits smooth muscle cell proliferation and stimulates the expression of markers that are characteristic of 37
Sodek, J. See Zohar, R. ... 118
SP-A receptor utilizing the PI3 kinase pathway, Activation of surfactant protein-B transcription: signaling through the ... 229
Spicer, Douglas B. See Leshem, Yael ... 101
Stein, Gary S. See Drissi, Hicham ... 341
Stein, Janet L. See Drissi, Hicham ... 341
Strauss, Rupert W. See Hackett, Sean F. ... 275
Strayer, David S. and Laxminarayana Korutla. Activation of surfactant protein-B transcription: signaling through the SP-A receptor utilizing the PI3 kinase pathway ... 229
Stroma-initiating cells, Effect of cytokines on the proliferation/differentiation of ... 351
Suarez-Huerta, Nathalie, Roger Mosselmans, Jacques E. Dumont, and Bernard Robaye. Actin depolymerization and polymerization are required during apoptosis in endothelial cells 239
Subapical compartment and its role in intracellular trafficking and cell polarity, The ... 151
Sun, Lanyin. See Zhai, Qiwei ... 161
Sun, Tung-Tien. See Salm, Sarah N. ... 70
Surfactant protein-B transcription: signaling through the SP-A receptor utilizing the PI3 kinase pathway, Activation of ... 229
Suri, Chitra. See Hackett, Sean F. ... 275
Suzu, Shinya. See Yamada, Muneo ... 351
Suzuki, K. See Zohar, R. ... 118
Suzuki, N. See Zohar, R. ... 118
Synectin, syndecan-4 cytoplasmic domain binding PDZ protein, Inhibits cell migration ... 373
Synovial cells and tissue, Gap junctions in human ... 110

T

Takayanagi, Atsushi. See Ohtsubo, Masafumi ... 131
Takigawa, Masaharu. See Nishida, Takashi ... 197
Tanaka, Katsuhiro. See Nakano, Toru ... 255
Tanaka-Douzono, Miyuki. See Yamada, Muneo ... 351
Terry, Anne. See Drissi, Hicham ... 341
TGF-β by prostatic cell cocultures using novel basal and luminal prostatic epithelial cell lines, Generation of active ... 70
Thiede, Mark A. See Cheng, Linzhao ... 58
Trinkaus-Randall, V., R. Kewalramani, J. Payne, and A. Cornell-Bell. Calcium signaling induced by adhesion mediates protein tyrosine phosphorylation and is independent of pHi ... 400
Tsujimura, Akira. See Salm, Sarah N. ... 70
Tumor necrosis factor-α in INS-1 cells, Synergistic activation of NF-κB and inducible isoform of nitric oxide synthase induction by interferon-γ and ... 46
Tumor progression, Attenuation and loss of hormonal modulation of KGF (FGF-7)/KGF receptor expression and mitogenesis during mammary ... 222
Tumors of bone and other benign musculoskeletal tumors, The expression of *Met*/hepatocyte growth factor receptor gene in giant cell ... 191
Type I collagen-induced osteoblastic differentiation of bone-marrow cells mediated by collagen-α2β1 integrin interaction ... 207
Tyrosine kinases on immortalized Kaposi's sarcoma cells, Expression of functional ... 246

V

Van Der Wouden, Johanna M. See Van IJzendoorn, Sven C.D. 151
Vanguri, Padmavathy. See Cheng, Linzhao ... 58

Van IJzendoorn, Sven C.D., Olaf Maier, Johanna M. Van Der Wouden, and Dick Hoekstra. The subapical compartment and its role in intracellular trafficking and cell polarity 151
Van Wijnen, André J. See Drissi, Hicham 341
Vascular smooth muscle cell growth, Endothelial heparan sulfate is necessary but not sufficient for control of 93
Vukicevic, Slobodan. See Dorai, Haimanti 37

W

Wahlin, Karl. See Hackett, Sean F. 275
Wakimoto, Noriko. See Yamada, Muneo 351
Wang, Exing, Michele D. Lee, and Kenneth W. Dunn. Lysosomal accumulation of drugs in drug-sensitive MES-SA but not multidrug-resistant MES-SA/Dx5 uterine sarcoma cells 263
Weiner, Carl P. See Carvajal, Jorge A. 409
Wilson, E. Lynette. See Salm, Sarah N. 70
Wolf, Robert E. See Kolomytkin, Oleg V. 110
Wollheim, Claes B. See Sekine, Nobuo 46
Wunder, Jay. See Ferracini, Riccardo 191

X

Xing, Chao. See Imagawa, Walter 222

Y

Yamada, Muneo, Shinya Suzu, Miyuki Tanaka-Douzono, Noriko Wakimoto, Kiyohiko Hatake, Hirotoshi Hayasawa, and Kazuo Motoyoshi. Effect of cytokines on the proliferation/differentiation of stroma-initiating cells 351
Yancopoulos, George. See Hackett, Sean F. 275
Yu, Xiang. See Zhai, Qiwei 161

Z

Zhai, Qiwei, Hongbin Ji, Zhongcheng Zheng, Xiang Yu, Lanyin Sun, and Xinyuan Liu. Copper induces apoptosis in BA/F3β cells: bax, reactive oxygen species, and NFκB are involved .. 161
Zhang, Wandong and Victor Ling. Cell-cycle-dependent turnover of P-glycoprotein in multidrug-resistant cells 17
Zheng, Zhongcheng. See Zhai, Qiwei 161
Zohar, R., N. Suzuki, K. Suzuki, P. Arora, M. Glogauer, C.A.G. McCulloch, and J. Sodek. Intracellular osteopontin is an integral component of the CD44-ERM complex involved in cell migration 118

JOURNAL OF CELLULAR PHYSIOLOGY

ORIGINALLY FOUNDED BY THE WISTAR INSTITUTE

CLAUDIO BASILICO, *Editor-in-Chief*
New York University Medical Center • Department of Microbiology
550 First Avenue, MSB-256 • New York, New York 10016

EDITORS

ROLAND BARON
Depts. of Orthopedics and Cell Biology
Yale University
School of Medicine
333 Cedar Street
New Haven, CT 06510

PAOLO M. COMOGLIO
Institute for Research and
Treatment of Cancer (IRCC)
Department of Biomedical Sciences
Strada Provincale 142, km 3.95
10060 Candiolo (TO), Italy

ANTONIO GIORDANO
Department of Pathology
Jefferson Medical College
233 S. 10th Street
Philadelphia, PA 19107

FREDERICK R. MAXFIELD
Department of Biochemistry
Cornell Medical College
1300 York Avenue
New York, NY 10032

KOHEI MIYAZONO
The Cancer Institute
Japanese Foundation for Cancer Research
1-37-1 Kami-ikebukuro
Toshima-ku
Tokyo 170, Japan

HARVEY L. OZER
Department of Microbiology and
Molecular Genetics
UMDNJ–New Jersey Medical School
185 South Orange Avenue
Newark, NJ 07103-2714

TONY PAWSON
Samuel Lunenfeld Research Institute
Mount Sinai Hospital
600 University Avenue
Toronto, Ontario M5G 1X5, Canada

DANIEL B. RIFKIN
Department of Cell Biology
New York University Medical Center
550 First Avenue, MSB-650
New York, NY 10016

KENNETH M. YAMADA
Laboratory of Developmental Biology
Building 30, Room 414
National Institute of Dental Health
NIH-Bethesda, MD 20892

REVIEWS EDITOR: ANTONIO GIORDANO

EDITORIAL BOARD

PAOLO AMATI
JUDY CAMPISI
LAWRENCE A. CHASIN
STEPHEN C. CLARK
DAVID CLEMMONS
VINCENT J. CRISTOFALO
DENNIS D. CUNNINGHAM
TOM CURRAN
VITTORIO DEFENDI
RIK DERYNCK
GIULIO DRAETTA
DENISE GALLOWAY
DAVID GURWITZ
CARL-HENRIK HELDIN
LAWRENCE E. HIGHTOWER
LUIS JIMENEZ De ASUA
VICTOR LING
DANIEL LOUVARD
EUGENE MARCANTONIO
JOAN MASSAGUE
DONALD METCALF
G.K. MICHALOPOULOS
PAUL NEIMAN
EISUKE NISHIDA
PIER GIUSEPPE PELICCI
JACQUES POUYSSEGUR
CAROL PRIVES
ULF RAPP
GIOVANNI ROVERA
ENRIQUE ROZENGURT
JOSEPH SCHLESSINGER
ERIC STANBRIDGE
GARY S. STEIN
SHOICHIRO TSUKITA
AXEL ULLRICH
JAN T. VILCEK
MITCHEL VILLEREAL

COPYRIGHT © 2000 BY WILEY-LISS, INC.
All Rights Reserved

VOLUME 184
JULY, AUGUST, SEPTEMBER 2000

VOL. 184 JULY 2000 NO. 1

CONTENTS

REVIEW ARTICLE

W. DOUGLAS CRESS AND EDWARD SETO. Histone Deacetylases, Transcriptional Control, and Cancer 1

ORIGINAL ARTICLES

WANDONG ZHANG AND VICTOR LING. Cell-Cycle–Dependent Turnover of P-Glycoprotein in Multidrug-Resistant Cells 17

ØYVIND MELIEN, DAGNY SANDNES, ELLEN JOHANNE JOHANSEN, AND THORALF CHRISTOFFERSEN. Effects of Pertussis Toxin on Extracellular Signal-Regulated Kinase Activation in Hepatocytes by Hormones and Receptor-Independent Agents: Evidence Suggesting a Stimulatory Role of G_i Proteins at a Level Distal to Receptor Coupling 27

HAIMANTI DORAI, SLOBODAN VUKICEVIC, AND T. KUBER SAMPATH. Bone Morphogenetic Protein-7 (Osteogenic Protein-1) Inhibits Smooth Muscle Cell Proliferation and Stimulates the Expression of Markers That Are Characteristic of SMC Phenotype In Vitro 37

NOBUO SEKINE, TOSHIO ISHIKAWA, TOMOKI OKAZAKI, MICHIO HAYASHI, CLAES B. WOLLHEIM, AND TOSHIRO FUJITA. Synergistic Activation of NF-κB and Inducible Isoform of Nitric Oxide Synthase Induction by Interferon-γ and Tumor Necrosis Factor-α in INS-1 Cells 46

LINZHAO CHENG, PANKAJ QASBA, PADMAVATHY VANGURI, AND MARK A. THIEDE. Human Mesenchymal Stem Cells Support Megakaryocyte and Pro-Platelet Formation From $CD34^+$ Hematopoietic Progenitor Cells 58

SARAH N. SALM, YASUHIRO KOIKAWA, VARRIE OGILVIE, AKIRA TSUJIMURA, SANDRA COETZEE, DAVID MOSCATELLI, EMMA MOORE, HERBERT LEPOR, ELLEN SHAPIRO, TUNG-TIEN SUN, AND E. LYNETTE WILSON. Generation of Active TGF-β by Prostatic Cell Cocultures Using Novel Basal and Luminal Prostatic Epithelial Cell Lines 70

KARIN DUCOS, BEATRICE PANTERNE, NICOLAS FORTUNEL, ANTOINETTE HATZFELD, MARIE-NOELLE MONIER, AND JACQUES HATZFELD. $p21^{cip1}$ mRNA Is Controlled by Endogenous Transforming Growth Factor-β1 in Quiescent Human Hematopoietic Stem/Progenitor Cells 80

H. PAUL EHRLICH, GIULIO GABBIANI, AND PAOLO MEDA. Cell Coupling Modulates the Contraction of Fibroblast-Populated Collagen Lattices 86

DAVID S. ETTENSON, EDWARD W.Y. KOO, JAMES L. JANUZZI, AND ELAZER R. EDELMAN. Endothelial Heparan Sulfate Is Necessary but Not Sufficient for Control of Vascular Smooth Muscle Cell Growth 93

YAEL LESHEM, DOUGLAS B. SPICER, RONIT GAL-LEVI, AND ORNA HALEVY. Hepatocyte Growth Factor (HGF) Inhibits Skeletal Muscle Cell Differentiation: A Role for the bHLH Protein Twist and the cdk Inhibitor p27 101

OLEG V. KOLOMYTKIN, ANDREW A. MARINO, KALIA K. SADASIVAN, WILLIAM D. MEEK, ROBERT E. WOLF, VICKY HALL, KEVIN J. MCCARTHY, AND JAMES A. ALBRIGHT. Gap Junctions in Human Synovial Cells and Tissue 110

R. ZOHAR, N. SUZUKI, K. SUZUKI, P. ARORA, M. GLOGAUER, C.A.G. MCCULLOCH, AND J. SODEK. Intracellular Osteopontin Is an Integral Component of the CD44-ERM Complex Involved in Cell Migration 118

MASAFUMI OHTSUBO, ATSUSHI TAKAYANAGI, SHINOBU GAMOU, AND NOBUYOSHI SHIMIZU. Interruption of NFκB–Stat1 Signaling Mediates EGF-Induced Cell-Cycle Arrest . . 131

VOL. 184 AUGUST 2000 NO. 2

CONTENTS

REVIEW ARTICLES

JOSEPH A. BOGAN, DARREN A. NATALE, AND MELVIN L. DEPAMPHILIS. Initiation of Eukaryotic DNA Replication: Conservative or Liberal? 139

SVEN C.D. VAN IJZENDOORN, OLAF MAIER, JOHANNA M. VAN DER WOUDEN, AND DICK HOEKSTRA. The Subapical Compartment and Its Role in Intracellular Trafficking and Cell Polarity 151

ORIGINAL ARTICLES

QIWEI ZHAI, HONGBIN JI, ZHONGCHENG ZHENG, XIANG YU, LANYIN SUN, AND XINYUAN LIU. Copper Induces Apoptosis in BA/F3β Cells: Bax, Reactive Oxygen Species, and NFκB Are Involved 161

TERI A. GRIEB AND WILSON H. BURGESS. The Mitogenic Activity of Fibroblast Growth Factor-1 Correlates With Its Internalization and Limited Proteolytic Processing 171

JIEBO LU, JEONG HYEON PARK, ALICE YEE-CHANG LIU, AND KUANG YU CHEN. Activation of Heat Shock Factor 1 by Hyperosmotic or Hypo-Osmotic Stress Is Drastically Attenuated in Normal Human Fibroblasts During Senescence 183

RICCARDO FERRACINI, KATIA SCOTLANDI, ELGA CAGLIERO, FRANCESCA ACQUARONE, MARTINA OLIVERO, JAY WUNDER, AND NICOLA BALDINI. The Expression of *Met*/Hepatocyte Growth Factor Receptor Gene in Giant Cell Tumors of Bone and Other Benign Musculoskeletal Tumors 191

TAKASHI NISHIDA, TOHRU NAKANISHI, MASAHIRO ASANO, TSUYOSHI SHIMO, AND MASAHARU TAKIGAWA. Effects of CTGF/Hcs24, a Hypertrophic Chondrocyte-Specific Gene Product, on the Proliferation and Differentiation of Osteoblastic Cells In Vitro 197

MORIMICHI MIZUNO, RYUICHI FUJISAWA, AND YOSHINORI KUBOKI. Type I Collagen-Induced Osteoblastic Differentiation of Bone-Marrow Cells Mediated by Collagen-α2β1 Integrin Interaction 207

CANDACE K. RITCHIE, ANTONIO GIORDANO, AND KAMEL KHALILI. Integrin Involvement in Glioblastoma Multiforme: Possible Regulation by NF-κB 214

WALTER IMAGAWA, VADIM K. PEDCHENKO, JENNIFER HELBER, AND CHAO XING. Attenuation and Loss of Hormonal Modulation of KGF (FGF-7)/KGF Receptor Expression and Mitogenesis During Mammary Tumor Progression 222

DAVID S. STRAYER AND LAXMINARAYANA KORUTLA. Activation of Surfactant Protein-B Transcription: Signaling Through the SP-A Receptor Utilizing the PI3 Kinase Pathway 229

NATHALIE SUAREZ-HUERTA, ROGER MOSSELMANS, JACQUES E. DUMONT, AND BERNARD ROBAYE. Actin Depolymerization and Polymerization Are Required During Apoptosis in Endothelial Cells 239

FABRIZIO MONTALDO, ANTONELLA MAFFÉ, MONICA MORINI, DOUGLAS NOONAN, SILVIA GIORDANO, ADRIANA ALBINI, AND MARIA PRAT. Expression of Functional Tyrosine Kinases on Immortalized Kaposi's Sarcoma Cells 246

TORU NAKANO, MAYUMI ABE, KATSUHIRO TANAKA, RYUZABURO SHINEHA, SUSUMU SATOMI, AND YASUFUMI SATO. Angiogenesis Inhibition by Transdominant Mutant Ets-1 255

EXING WANG, MICHELE D. LEE, AND KENNETH W. DUNN. Lysosomal Accumulation of Drugs in Drug-Sensitive MES-SA but Not Multidrug-Resistant MES-SA/Dx5 Uterine Sarcoma Cells 263

VOL. 184 SEPTEMBER 2000 NO. 3

CONTENTS

REVIEW ARTICLES

SEAN F. HACKETT, HIROAKI OZAKI, RUPERT W. STRAUSS, KARL WAHLIN, CHITRA SURI, PETER MAISONPIERRE, GEORGE YANCOPOULOS, AND PETER A. CAMPOCHIARO Angiopoietin 2 Expression in the Retina: Upregulation During Physiologic and Pathologic Neovascularization 275

RICHARD N. KOLESNICK, FELIX M. GONI, AND ALICIA ALONSO Compartmentalization of Ceramide Signaling: Physical Foundations and Biological Effects 285

PETER A. CAMPOCHIARO Retinal and Choroidal Neovascularization 301

SHIV I.S. GREWAL Transcriptional Silencing in Fission Yeast 311

ORIGINAL ARTICLES

FREDERIC DESCHASEAUX AND PIERRE CHARBORD Human Marrow Stromal Precursors Are α1 Integrin Subunit-Positive 319

SHEILA RYDZIEL, DEENA DURANT, AND ERNESTO CANALIS Platelet-Derived Growth Factor Induces Collagenase 3 Transcription in Osteoblasts Through the Activator Protein 1 Complex 326

S.W. FOX, K. FULLER, AND T.J. CHAMBERS Activation of Osteoclasts by Interleukin-1: Divergent Responsiveness in Osteoclasts Formed In Vivo and In Vitro 334

HICHAM DRISSI, QUYEN LUC, RAUF SHAKOORI, SUSANA CHUVA DE SOUSA LOPES, JE-YONG CHOI, ANNE TERRY, MING HU, STEPHEN JONES, JAMES C. NEIL, JANE B. LIAN, JANET L. STEIN, ANDRE J. VAN WIJNEN, AND GARY S. STEIN Transcriptional Autoregulation of the Bone Related CBFA1/RUNX2 Gene 341

MUNEO YAMADA, SINYA SUZU, MIYUKI TANAKA-DOUZONO, NORIKO WAKIMOTO, KIYOHIKO HATAKE, HIROTOSHI HAYASAWA AND KAZUO MOTOYOSHI Effect of Cytokines on the Proliferation/Differentiation of Stroma-Initiating Cells 351

SONNIE KIRK, JENNY OLDHAM, RAVI KAMBADUR, MRIDULA SHARMA, PETE DOBBIE, AND JOHN BASS Myostatin Regulation During Skeletal Muscle Regeneration 356

JEAN-MARC KÜHNEL, JUDY H. CHIAO, AND F.M. SIROTNAK Contrasting Effects of Oncogene Expression on Two Carrier-Mediated Systems Internalizing Folate Compounds in Fisher Rat 3T3 Cells 364

YOUHE GAO, MIN LI, WEIZHI CHEN, AND MICHAEL SIMONS Synectin, Syndecan-4 Cytoplasmic Domain Binding PDZ Protein, Inhibits Cell Migration 373

SÍLVIA BUSQUETS, BELEN ALVAREZ, MARTA LLOVERA, NEUS AGELL, FRANCISCO J. LOPEZ-SORIANO, AND JOSEP M. ARGILES Branched-Chain Amino Acids Inhibit Proteolysis in Rat Skeletal Muscle: Mechanisms Involved 380

V. TRINKAUS-RANDALL, R. KEWALRAMANI, J. PAYNE, AND A. CORNELL-BELL Calcium Signaling Induced by Adhesion Mediates Protein Tyrosine Phosphorylation and Is Independent of pHi 385

THOMAS E. PHILLIPS, JON MCHUGH, AND CECIL P. MOORE CYCLOSPORINE HAS A DIRECT EFFECT ON THE DIFFERENTIATION OF A MUCIN-SECRETING CELL LINE 400

JORGE A. CARVAJAL, ALFREDO M. GERMAIN, JUAN PABLO HUIDOBRO-TORO, AND CARL P. WEINER Molecular Mechanism of cGMP-Mediated Smooth Muscle Relaxation . . 409

Index to Volume 184 421